



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: July 27, 2010

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Contract For Design Of The El Estero Wastewater Treatment Plant
Supervisory Control And Data Acquisition WiFi Backup System

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract, subject to approval by the City Attorney as to form, with Beckman Software Engineering in the amount of \$43,700 for design and installation services for the El Estero Supervisory Control and Data Acquisition (SCADA) WiFi Backup System and authorize the Public Works Director to approve expenditures of up to \$4,400 for extra services of Beckman Software Engineering that may result from necessary changes in the scope of work.

DISCUSSION:

City Engineering staff is currently working with El Estero Wastewater Treatment Plant (El Estero) staff to design a backup system for the existing El Estero SCADA program. The SCADA network communication at El Estero is presently accomplished by use of a single fiber optic cable system. In most cases, the fiber optic cable in El Estero is a direct burial multi-strand, multi-mode cable. As a result, the existing system is a single point of failure, not only for the process systems, but also for the various in-plant and network based information systems. The installation of a backup system will provide an additional SCADA communication network to complement the existing fiber optic network. The additional network will serve as a hot backup wireless network and, upon failure of the fiber optic system, will take over and maintain network communication.

SELECTION PROCESS:

Per purchasing guidelines, a formal Request for Proposal (RFP) was sent to three firms recommended by Information Systems, who have experience performing this type of service. One proposal was received from Beckman Software Engineering. One of the other firms that staff contacted, Compuvision/Vision Communications, teamed up with Beckman Software Engineering as a sub-consultant and, therefore, did not submit a proposal. The third company did not respond. Beckman Software Engineering is a well qualified firm and has successfully completed many similar projects for the City.

BUDGET/FINANCIAL INFORMATION:

Staff recommends that Council authorize the Public Works Director to execute a contract with Beckman Software Engineering in the amount of \$43,700 for design and installation services. Staff requests additional approval of \$4,400, or approximately 10%, to cover any necessary unforeseen changes in scope, for a total authorization amount of \$48,100.

There are adequate appropriated funds in the Wastewater Capital Fund to cover the cost of this contract.

PREPARED BY: Christopher Toth, Wastewater System Manager/ALS/nrs

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office